



SEQUENCE LISTING

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<120> Disease risk estimating method using sequence polymorphisms in a specific region of chromosome 19

<130> P 687 PC00

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<170> PatentIn version 3.1

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44

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<211> 39

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<210> 91

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40

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ctgggttcta gaactaccya tgcaaaccga gctgtttcc

39

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<211> 48

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48

<210> 96

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<400> 96

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46

<210> 99

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<210> 100

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<400> 100

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<400> 103

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<210> 104

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<400> 104

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<400> 105

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<210> 106

<211> 42

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<220>

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42

<210> 107

<211> 40

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<210> 108

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<400> 108  
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41

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<400> 109  
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<400> 110  
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<400> 111  
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<210> 112

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<400> 112  
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23

<210> 114  
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<400> 114  
tggtggatgg tgtgaagca

19

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<400> 115  
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<210> 116  
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<400> 116  
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23

<210> 117

<211> 20

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<400> 117  
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20

<210> 118

<211> 20

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<220>

<223> Primer

<400> 118  
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20

<210> 119

<211> 28

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<220>

<223> Probe

<400> 119

tggcgacgta attcccgact atgtgctg

28

<210> 120

<211> 19

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<400> 120

cgcaacgtgc cctgggaat

19

<210> 121

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<220>

<223> Primer

<400> 121

aggctcaaca aggaaaaatg c

21

<210> 122

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<220>

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<400> 122  
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22

<210> 123

<211> 25

<212> DNA

<213> Artificial sequence

<220>

<223> Probe

<400> 123  
aaagggtggg tgtgggagac attgg

25

<210> 124

<211> 22

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<220>

<223> Probe

<400> 124  
aaaccaacct aggcacccca aa

22

<210> 125

<211> 22

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 125

cgacgaactt ctctgaagcg aa

22

<210> 126

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<220>

<223> Primer

<400> 126  
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18

<210> 127

<211> 22

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<220>

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<400> 127  
atgagcgctcc acctcctgaa cc

22

<210> 128

<211> 22

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<220>

<223> Probe

<400> 128  
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22

<210> 129

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<212> DNA

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<223> Primer

<400> 129

atgccctgta ggttcaatgg

20

<210> 130

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<223> Primer

<400> 130

tggaggtctt taggggcttg

20

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<220>

<223> Probe

<400> 131

ggctgggtccc cgtcttctcc ttcc

24

<210> 132

<211> 22

<212> DNA

<213> Artificial sequence

<220>

<223> Probe

<400> 132  
tctctgttgc cacttcagcc tc

22

<210> 133

<211> 19

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 133  
tggctaacac ggtgaaacc

19

<210> 134

<211> 23

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<400> 134  
ggaatccaaa gattctatga tgg

23

<210> 135

<211> 21

<212> DNA

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<223> Probe

<400> 135

gggaggcgga gcttgcaagtg a

21

<210> 136

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Probe

<400> 136

ctgagatcgc accactgcac

20

<210> 137

<211> 18

<212> DNA

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<223> Primer

<400> 137

cagtgtccaa agagcacc

18

<210> 138

<211> 17

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 138  
ctacccttt agcgacc

17

<210> 139

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> Probe

<400> 139  
tcctgcccc agagcgtcac c

21

<210> 140

<211> 25

<212> DNA

<213> Artificial sequence

<220>

<223> Probe

<400> 140  
gtacggtcca cataattttg gagga

25

<210> 141

<211> 20

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<220>

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<400> 141  
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20



<210> 142

<211> 16

<212> DNA

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<220>

<223> Primer

<400> 142

gaagcccagg aaatgc

16

<210> 143

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Probe

<400> 143

ggacgcccac ctggccaacc

20

<210> 144

<211> 19

<212> DNA

<213> Artificial sequence

<220>

<223> Probe

<400> 144

cgtgctgccc aacgaagtg

19

<210> 145

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 145

ttgtgctttc tctgtgtcca

20

<210> 146

<211> 20

<212> DNA

<213> Artificial sequence

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<223> Primer

<400> 146

tatcagaaaa ggctggagga

20

<210> 147

<211> 20

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<220>

<223> Probe

<400> 147

aggaccacag gacacgcaga

20

<210> 148

<211> 20

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<223> Probe

<400> 148

catagaacag tccagaacac

20

<210> 149

<211> 22

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 149

cacacctggc tcatttttgt at

22

<210> 150

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 150

tcatccaggt thtagatgcc a

21

<210> 151

<211> 23

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 151

tggagtgcata tggcacgatac tct

23

<210> 152

<211> 23

<212> DNA

<213> Artificial sequence

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<223> Primer

<400> 152

ccatgggcat caaatcctg gga

23

<210> 153

<211> 22

<212> DNA

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<223> Primer

<400> 153

gtcctgccct cagcaaagag aa

22

<210> 154

<211> 22

<212> DNA

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<223> Primer

<400> 154

ttctcctgcg attaaaggct gt

22

<210> 155

<211> 22

<212> DNA

<213> Artificial sequence

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<223> Primer

<400> 155

atcctgtccc tactggccat tc

22

<210> 156

<211> 22

<212> DNA

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<223> Primer

<400> 156

tgtgaacgtg acagtgagaa at

22

<210> 157

<211> 22

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 157

gtcccataga taggagtgaa ag

22

<210> 158

<211> 20  
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<220>

<223> Primer

<400> 158  
ccctaggaca caggagcaca

20

<210> 159  
<211> 18  
<212> DNA  
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<220>

<223> Primer

<400> 159  
tgcatagcta ggtcctgc

18

<210> 160  
<211> 19  
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<220>

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<400> 160  
gccaa gcaga agagacaaa

19

<210> 161  
<211> 19  
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<220>

<223> Primer

<400> 161

gagtggctgg ggagtagga

19

<210> 162

<211> 35

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 162

aactgacraa actagctcta tggggtggtg ccgca

35

<210> 163

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 163

cctaccacca tcatcacatc c

21

<210> 164

<211> 21

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 164

gccttgccaa aaatcataac c

21

<210> 165

<211> 30

<212> DNA

<213> Artificial sequence

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<223> Primer

<400> 165

cctctcccca attaagtgcc ttcacacagc

30

<210> 166

<211> 22

<212> DNA

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<223> Primer

<400> 166

cgcaaaaact tgtgtattca cc

22

<210> 167

<211> 22

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<220>

<223> Primer



<400> 167  
cccatttttta tcatcagcaa cc 22

<210> 168

<211> 23

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 168  
ctggctctga aacttactag ccc 23

<210> 169

<211> 19

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 169  
gctggactgt caccgcatg 19

<210> 170

<211> 17

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 170  
ggagcagggt tggcgtg 17

<210> 171  
<211> 22  
<212> DNA  
<213> Artificial sequence

<220>

<223> Probe

<400> 171  
tgccctccca gaggtaaggc ct 22

<210> 172  
<211> 21  
<212> DNA  
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<220>

<223> Probe

<400> 172  
ccctcccgga ggtaaggcct c 21

<210> 173  
<211> 40  
<212> DNA  
<213> Human

<220>

<221> misc\_feature

<222> (19)..(20)

<223> those nucleotides can be deleted as a unit, per rs#3047560 in table 1b

<400> 173

ataaaaaaat aaaaaaaaaa atagccgagc atggtggtgg 40

<210> 174

<211> 36

<212> DNA

<213> Human

<400> 174  
tcggggacag gactgygtct tctagagget cagtgt 36

<210> 175

<211> 36

<212> DNA

<213> Human

<400> 175  
tggctgagac tcaacygtca cccctctctc tggtc 36

<210> 176

<211> 38

<212> DNA

<213> Human

<220>

<221> misc\_feature

<222> (16)..(18)

<223> these nucleotides can be deleted as a unit, per RS#3212987 in table 1b

<400> 176  
gtgtgacctc tctctttctt cttcttcttc ttcttggt 38

<210> 177

<211> 36

<212> DNA

<213> Human

<400> 177

gctgctgctg ctgctkcttc cgcttcttgt cccggc

36

<210> 178

<211> 36

<212> DNA

<213> Human

<400> 178

ggcggctgcc ctcccragg taaggcctca cacgcc

36

<210> 179

<211> 33

<212> DNA

<213> Human

<400> 179

agttggagaa aggccagtcc atygacgaca tga

33

<210> 180

<211> 11

<212> DNA

<213> Human

<400> 180

cgctgmagag g

11

<210> 181

<211> 10

<212> DNA

<213> Human

<400> 181  
tgccracgaa

10

<210> 182

<211> 11

<212> DNA

<213> Human

<400> 182  
tgccgmttct a

11

<210> 183

<211> 36

<212> DNA

<213> Human

<400> 183  
caatccgcta ggcakagcc aatcgggata ctgcgc

36

<210> 184

<211> 39

<212> DNA

<213> Human

<220>

<221> misc\_feature

<222> (16)..(19)

<223> these nucleotides can be deleted as a unit, per Rs3916791 in table 1c

<400> 184  
ttcgatcaat actcagacaa tcttggcagg cgcaggagg

39

<210> 185

<211> 37

<212> DNA

<213> Human

<400> 185

tggctctgaa acttactagc cctattttat ggagagg

37

<210> 186

<211> 36

<212> DNA

<213> Human

<400> 186

caggcttgag ccaccrcgcc cggcctgcaa agccat

36

<210> 187

<211> 36

<212> DNA

<213> Human

<220>

<221> misc\_feature

<222> (16)..(16)

<223> this nucleotide can be deleted, per Rs3916789 in table 1c

<400> 187

gtagagacag gggtttctcc atgttggtca ggctgg

36

<210> 188

<211> 36

<212> DNA

<213> Human

<400> 188  
ttagtagaga cagggktttc tccatgttgg tcaggc 36

<210> 189

<211> 115

<212> DNA

<213> Human

<220>

<221> misc\_feature

<222> (16)..(95)

<223> these nucleotides can be deleted as a unit, per RS3916787 in table 1c

<400> 189  
gctgcagtga gctgtacacc tgtggtccca gctactctgg aagctgaggt gggaggatcg 60  
cttgagccca agaggtggag gctgcagtga gctgtgactg tgccactgca ctcca 115

<210> 190

<211> 39

<212> DNA

<213> Human

<400> 190  
tgacagtaga catcctgtca trataagtct ttttttttt 39

<210> 191

<211> 38

<212> DNA

<213> Human

<400> 191  
ggttgagagg ccaggcgygg tgctcacgcc tgtaattt 38

<210> 192

<211> 39

<212> DNA

<213> Human

<400> 192

attaagtgcc ttcacacagc wctgggttaa tgtttataa

39

<210> 193

<211> 40

<212> DNA

<213> Human

<400> 193

cagacctccc tctcccaata waacgggttg tctgttgcc

40

<210> 194

<211> 39

<212> DNA

<213> Human

<400> 194

gggaggctcg aggcgggcr attgcatgag ctcaggatt

39

<210> 195

<211> 40

<212> DNA

<213> Human

<400> 195

tgcatgagc tgagatcgr ccaactgcact ccagcctggg

40



<210> 196

<211> 40

<212> DNA

<213> Human

<400> 196

cagggcatatc aaccagcacw tgatcttctg tgtgacctca

40

<210> 197

<211> 39

<212> DNA

<213> Human

<400> 197

cctgcttgct tgctttctct ytctctcttt ctttctttc

39

<210> 198

<211> 39

<212> DNA

<213> Human

<400> 198

cttgcttgct ttctctctct ytctttcttt ctttctttc

39

<210> 199

<211> 39

<212> DNA

<213> Human

<400> 199

ctgttcaggc tggcggctca yttggatgaa cagggagtg

39

<210> 200

<211> 39

<212> DNA

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<400> 200

tcttaggacg catgggggk gagagaacgg ggagataga

39

<210> 201

<211> 41

<212> DNA

<213> Human

<400> 201

tcggggattc gaaccctat rctacccaaa gactcggctt c

41

<210> 202

<211> 41

<212> DNA

<213> Human

<400> 202

gcagcccggg ctacagggtt rctgaggtg tgggtcccag g

41

<210> 203

<211> 60

<212> DNA

<213> Human

<220>

<221> misc\_feature

<222> (21)..(21)

<223> this nucleotide can be deleted, per RS5828233 in table 1c

<400> 203  
aagactctct caaaaaaaaa aaaaaaaaa aacaaaaaac cttccctctc ctgttccact 60

<210> 204

<211> 34

<212> DNA

<213> Human

<400> 204  
aagcccaaag ggamagaaac cttcgagcca gaag 34

<210> 205

<211> 35

<212> DNA

<213> Human

<400> 205  
agccagaagg agcgragcct caggcccagg cagct 35

<210> 206

<211> 38

<212> DNA

<213> Human

<400> 206  
agaaagaaaa acagcaarat gccacagtgg agccagag 38

<210> 207

<211> 11

<212> DNA

<213> Human

<400> 207

ggcacrttgc g 11

<210> 208

<211> 11

<212> DNA

<213> Human

<400> 208  
gggcaygtgg c 11

<210> 209

<211> 39

<212> DNA

<213> Human

<400> 209  
cacccttttt ttggggtgcc yaggttggtt tcccctgca 39

<210> 210

<211> 39

<212> DNA

<213> Human

<400> 210  
gcaggactcc tccaaaatta ygtggaccgt acggagtcg 39

<210> 211

<211> 36

<212> DNA

<213> Human

<400> 211  
agaggctgaa gtggcmacag agaaggaagg agaaga 36

<210> 212

<211> 39

<212> DNA

<213> Human

<400> 212

cctgagcaaa cccatgagyg tccacctcct gaaccaagg

39

<210> 213

<211> 45

<212> DNA

<213> Artificial sequence

<220>

<223> Probe

<400> 213

gcgcctcaac agccagaagg agcgragcct caggcccagg cagct

45

<210> 214

<211> 16

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 214

tgagacgagg tggagg

16

<210> 215

<211> 20

<212> DNA

<213> Artificial sequence

<220>

<223> Primer

<400> 215

caatcaaaaa gaaaacatgg

20

<210> 216

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> Sequence Included in s region of chromosome

<400>216

CCAGAGACTG CACCAGCGCA GCCCAGCTTG AGCAAGATAG CG

42